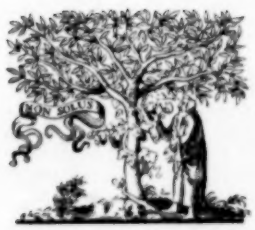
PHARMACOLOGY BIOCHEMISTRY AND BEHAVIOR

VOLUME 80, 2005
LIST OF CONTENTS
AUTHOR AND KEYWORD INDEX



ELSEVIER

PHARMACOLOGY BIOCHEMISTRY AND BEHAVIOR

Founded by MATTHEW J. WAYNER

US Editor-in-Chief
GEORGE F. KOOB
Department of Neuropharmacology, CVN7
The Scripps Research Institute
10550 N. Torrey Pines Road
La Jolla, CA 92037, USA
Fax: (858) 784-7450
E-mail: gfkpbb@scripps.edu

European Editor-in-Chief
DAVID N. STEPHENS
School of Life Sciences
University of Sussex
Falmer
Brighton
BN1 9QG, UK
E-mail: PBB@elsevier.com

Managing Editor:
Gery Schulteis
E-mail: gfkpbb@scripps.edu

Editorial Advisory Board

ANTONIO ARMARIO, Barcelona, Spain
ROBERT L. BALSTER, Richmond, VA
SUSAN BARRON, Lexington, KY
AXEL BECKER, Magdeburg, Germany
GIOVANNI BIGGIO, Cagliari, Italy
F. BORSINI, Milan, Italy
ROBERT J. CAREY, Syracuse, NY
ALLAN C. COLLINS, Boulder, CO
DONALD V. COSCINA, Detroit, MI
JACQUELINE N. CRAWLEY, Bethesda, MD
CHRISTOPHER L. CUNNINGHAM, Portland, OR
STANISLAW J. CZUCZWAR, Lublin, Poland
ADRIAN J. DUNN, Shreveport, LA
HEIDRÜN FINK, Berlin, Germany
RICHARD A. GLENNON, Richmond, VA
GUY GRIEBEL, Bagneux, France
ROLAND R. GRIFFITHS, Baltimore, MD
NEIL E. GRUNBERG, Bethesda, MD
STEPHEN HEINRICHS, Chestnut Hill, MA
CHARLES J. HEYSER, Lancaster, PA
SANDY HOGG, Copenhagen, Denmark
STEPHEN G. HOLTZMAN, Atlanta, GA
CHRIS-ELLYN JOHANSON, Detroit, MI
BYRON C. JONES, University Park, PA
HAROLD KALANT, Toronto, Ontario, Canada
KATHLEEN M. KANTAK, Boston, MA
ANN E. KELLEY, Madison, WI
RAYMOND P. KESNER, Salt Lake City, UT
CONAN KORNETSKY, Boston, MA
EMINY H. Y. LEE, Taipei, Taiwan
ALLEN S. LEVINE, St. Paul, MN
WILLIAM J. McBRIDE, Indianapolis, IN
JACK H. MENDELSON, Belmont, MA
KAZUSHIGE MIZOGUCHI, Ibaraki, Japan
PRADEEP J. NATHAN, Hawthorn, Australia
R. JOHN RODGERS, Leeds, UK
JAQUELINE SAGEN, Miami, FL
PAUL R. SANBERG, Tampa, FL
PHIL SKOLNICK, Hackensack, NJ
JAMES E. SMITH, Winston-Salem, NC
SHELDON B. SPARBER, Minneapolis, MN
LINDA B. SPEAR, Binghamton, NY
CLARE STANFORD, London, UK
NEAL R. SWERDLOW, La Jolla, CA
MARIE-HÉLÈNE THIÉBOT, Paris, France
M. PAZ VIVEROS, Madrid, Spain
JEANNE M. WEHNER, Boulder, CO
FRIEDBERT WEISS, La Jolla, CA
ALICE M. YOUNG, Lubbock, TX
IAN S. ZAGON, Hershey, PA

PHARMACOLOGY BIOCHEMISTRY AND BEHAVIOR

Publication information: *Pharmacology Biochemistry and Behavior* (ISSN 0091-3057). For 2004, volumes 77–79 are scheduled for publication. Subscription prices are available upon request from the Publisher or from the Regional Sales Office nearest you or from this journal's website (http://www.elsevier.com/locate/pharmbiochembeh). Further information is available on this journal and other Elsevier products through Elsevier's website: (http://www.elsevier.com). Subscriptions are accepted on a prepaid basis only and are entered on a calendar year basis. Issues are sent by standard mail (surface within Europe, air delivery outside Europe). Priority rates are available upon request. Claims for missing issues should be made within six months of the date of dispatch.

Advertising information. Advertising orders and enquiries can be sent to: **USA, Canada and South America:** Mr Tino DeCarlo, The Advertising Department, Elsevier Inc., 360 Park Avenue South, New York, NY 10010-1710, USA; phone: (+1) (212) 633 3815; fax: (+1) (212) 633 3820; e-mail: t.decarlo@elsevier.com. **Europe and ROW:** Katrina Barton, Elsevier, 84 Theobalds Road, London, WC1X 8RR UK; phone: (+44) (0) 20 7611 4117; fax: (+44) (0) 20 7611 4463; e-mail: k.barton@elsevier.com

Orders, claims, and journal enquiries: please contact the Customer Service Department at the Regional Sales Office nearest you:

Orlando: Elsevier, Customer Service Department, 6277 Sea Harbor Drive, Orlando, FL 32887-4800, USA; phone: (+1) (877) 8397126 [toll free number for US customers], or (+1) (407) 3454020 [customers outside US]; fax: (+1) (407) 3631354; e-mail: usjcs@elsevier.com

Amsterdam: Elsevier, Customer Service Department, PO Box 211, 1000 AE Amsterdam, The Netherlands; phone: (+31) (20) 4853757; fax: (+31) (20) 4853432; e-mail: nlinfo-f@elsevier.com

Tokyo: Elsevier, Customer Service Department, 4F Higashi-Azabu, 1-Chome Bldg, 1-9-15 Higashi-Azabu, Minato-ku, Tokyo 106-0044, Japan; phone: (+81) (3) 5561 5037; fax: (+81) (3) 5561 5047; e-mail: jp.info@elsevier.com

Singapore: Elsevier, Customer Service Department, 3 Killiney Road, #08-01 Winsland House I, Singapore 239519; phone: (+65) 63490222; fax: (+65) 67331510; e-mail: asiainfo@elsevier.com

Author enquiries. For enquiries relating to the submission of articles (including electronic submission where available) please visit Elsevier's Author Gateway at http://authors.elsevier.com. The Author Gateway also provides the facility to track accepted articles and set up e-mail alerts to inform you of when an article's status has changed, as well as detailed artwork guidelines, copyright information, frequently asked questions and more.

Contact details for questions arising after acceptance of an article, especially those relating to proofs, are provided after registration of an article for publication.

English language help service: Upon request, Elsevier will direct authors to an agent who can check and improve the English of their paper (*before submission*). Please contact authorsupport@elsevier.com for further information.

Pharmacology Biochemistry and Behavior is an official journal of the International Behavioral Neuroscience Society. For information about the society, please contact: Marianne Van Wagner, IBNS Central Office, 8181 Tezel Road, #10269, San Antonio, TX 78250 USA. E-mail: ibns@ibnshomepage.org; tel: +1 830 796 9393/ +1 866 377 4416 (toll-free from within the US); fax: +1 830 796 9394. Members of the International Behavioral Neuroscience Society may order personal subscriptions at a concessional rate; details of this rate are available upon request.

Available online at www.sciencedirect.com

SCIENCE DIRECT®

Pharmacology, Biochemistry and Behavior 80 (2005) 651–654

PHARMACOLOGY BIOCHEMISTRY AND BEHAVIOR

www.elsevier.com/locate/pharmbiochembeh

CONTENTS
VOLUME 80, 2005

CONTENTS VOLUME 80 NUMBER 1 2005

ARTICLES

Estradiol valerate and intake of sweetened water.
BOSWELL, K.J., M.L. REID, J.V. FITCH, S.M. BENNETT, S.P. NARCISO, C.L. HUBBELL and L.D. REID 1

Recovery from experimental Parkinson's disease in the 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine hydrochloride treated marmoset with the melatonin analogue ML-23.
WILLIS, G.L. and A.D. ROBERTSON. 9

Gender differences in modulatory effects of tamoxifen upon the nigrostriatal dopaminergic system.
DLUZEN, D.E. and K.R. MICKLEY 27

Delta-9-tetrahydrocannabinol differentially suppresses emesis versus enhanced locomotor activity produced by chemically diverse dopamine D_2/D_3 receptor agonists in the least shrew (*Cryptotis parva*).
DARMANI, N.A. and J.L. CRIM 35

Thiolic antioxidant supplementation of the diet reverses age-related behavioural dysfunction in prematurely ageing mice.
GUAYERBAS, N., M. PUERTO, A. HERNANZ, J. MIQUEL and M. DE LA FUENTE. 45

Effects of acetylcholinesterase and butyrylcholinesterase inhibition on breathing in mice adapted or not to reduced acetylcholinesterase.
BOUDINOT, E., L. TAYSSE, S. DAULON, A. CHATONNET, J. CHAMPAGNAT and A.S. FOUTZ. 53

Inhibition of PKC in basolateral amygdala and posterior parietal cortex impairs consolidation of inhibitory avoidance memory.
BONINI, J.S., M. CAMMAROTA, D.S. KERR, L.R.M. BEVILAQUA and I. IZQUIERDO. 63

Involvement of potassium channels and nitric oxide in tramadol antinociception.
YALCIN, I. and F. AKSU 69

Chronic morphine increases the pituitary–adrenocortical response of juvenile rats to mild stress.
NOCK, B., T.J. CICERO and M. WICH. 77

Differential behavioral responses to nicotine in Lewis and Fischer-344 rats.
PHILIBIN, S.D., R.E. VANN, S.A. VARVEL, H.E. COVINGTON III, J.A. ROSECRANS, J.R. JAMES and S.E. ROBINSON. 87

Comparison of five different rat models of peripheral nerve injury.
DOWDALL, T., I. ROBINSON and T.F. MEERT 93

Accurate caloric compensation in rats for electively consumed ethanol–beer or ethanol–polycose mixtures.
ROWLAND, N.E., N. NASRALLAH and K.L. ROBERTSON. 109

The behavioral thermoregulatory response of febrile female rats is not attenuated by vagotomy.
TUREK, V.F., D.H. OLSTER, A. ETTENBERG and H.J. CARLISLE. 115

Evidence for Pavlovian conditioning of cocaine-induced responses linked to emotional behavioral effects.
CAREY, R.J., G. DEPALMA and E. DAMIANOPOULOS 123

Knock down of the α5 nicotinic acetylcholine receptor in spinal nerve-ligated rats alleviates mechanical allodynia.
VINCLER, M.A. and J.C. EISENACH. 135

Effects of the cannabinoid receptor agonist win 55,212-2 on operant behavior and locomotor activity in rats.
DREWS, E., M. SCHNEIDER and M. KOCH 145

doi:10.1016/S0091-3057(05)00105-X

Effects of chlordiazepoxide on single-unit activity in the septal region of the freely moving rat: aversive vs. non-aversive contexts.
THOMAS, E., C.E. STRICKLAND, E. YADIN and D.A. BUROCK 151

Clonidine pre-treatment fails to block acute smoking-induced EEG arousal/mood in cigarette smokers.
KNOTT, V.J., M. RAEGELE, D. FISHER, N. ROBERTSON, A. MILLAR, J. MCINTOSH and V. ILIVITSKY 161

Patterns of waterpipe use and dependence: implications for intervention development.
MAZIAK, W., T. EISSENBERG and K.D. WARD 173

Water soluble fraction (<10 kDa) from bee venom reduces visceral pain behavior through spinal α_2-adrenergic activity in mice.
KWON, Y.B., T.W. HAM, H.W. KIM, D.H. ROH, S.Y. YOON, H.J. HAN, I.S. YANG, K.W. KIM, A.J. BEITZ and J.H. LEE. 181

AVP V_{1b} selective antagonist SSR149415 blocks aggressive behaviors in hamsters.
BLANCHARD, R.J., G. GRIEBEL, C. FARROKHI, C. MARKHAM, M. YANG and D.C. BLANCHARD 189

Differential effects of morphine and LiCl on schedule-induced polydipsia.
MYRACLE, A., M. LOPEZ-GRANCHA, P. FLORES, J. GLOWA and A.L. RILEY 195

CONTENTS VOLUME 80 NUMBER 2 2005

ARTICLES

Neurochemical analysis of rat strain differences in the startle gating-disruptive effects of dopamine agonists.
SWERDLOW, N.R., R. KUCZENSKI, J.C. GOINS, S.K. CRAIN, L.T. MA, M.J. BONGIOVANNI and J.M. SHOEMAKER 203

Clozapine enhances disruption of prepulse inhibition after sub-chronic dizocilpine- or phencyclidine-treatment in Wistar rats.
SCHWABE, K., J. BROSDA, N. WEGENER and M. KOCH 213

Behavioral sensitization and voluntary ethanol drinking in alcohol-preferring AA rats exposed to different regimens of morphine treatment.
OJANEN, S.P., P. HYYTIÄ and K. KIIANMAA 221

Dopamine and serotonin content in select brain regions of weanling and adult alcohol drinking rat lines.
STROTHER, W.N., L. LUMENG, T.-K. LI and W.J. MCBRIDE. 229

Activity density in the open field: a measure for differentiating the effect of psychostimulants.
KAFKAFI, N. and G.I. ELMER. 239

The interactive effects of nicotinic and muscarinic cholinergic receptor inhibition on fear conditioning in young and aged C57BL/6 mice.
FEIRO, O. and T.J. GOULD 251

Seizure-induced oxidative stress in rat brain regions: blockade by nNOS inhibition.
RAJASEKARAN, K.. 263

Fenfluramine treatment in female rats accelerates the weight loss associated with activity-based anorexia.
ATCHLEY, D.P.D. and L.A. ECKEL. 273

Assessment of the contributions of Na^+ channel inhibition and general peripheral action in cocaine-induced conditioned taste aversion.
FREEMAN, K.B., M.I. KONAKLIEVA and A.L. RILEY 281

Mechanisms underlying anorexia after microinjection of bombesin into the lateral cerebroventricle.
TSUSHIMA, H. and M. MORI 289

Stimulation of 5-HT_{1B} receptors decreases cocaine- and sucrose-seeking behavior.
ACOSTA, J.I., F.A. BOYNTON, K.F. KIRSCHNER and J.L. NEISEWANDER 297

A preclinical comparison between different opioids: antinociceptive versus adverse effects.
MEERT, T.F. and H.A. VERMEIRSCH 309

Subanalgesic doses of dexketoprofen and HCT-2037 (nitrodexketoprofen) enhance fentanyl antinociception in monoarthritic rats.
GAITAN, G. and J.F. HERRERO. 327

Neither non-contingent electric footshock nor administered corticosterone facilitate the acquisition of methamphetamine self-administration.
MOFFETT, M.C. and N.E. GOEDERS 333

Antinociceptive, hypothermic, hypotensive, and reinforcing effects of a novel neurotensin receptor agonist, NT69L, in rhesus monkeys.
FANTEGROSSI, W.E., M.C.H. KO, J.H. WOODS and E. RICHELSON 341

Validation of the tremulous jaw movement model for assessment of the motor effects of typical and atypical antipychotics: effects of pimozide (Orap) in rats.
ISHIWARI, K., A. BETZ, S. WEBER, J. FELSTED and J.D. SALAMONE 351

CONTENTS VOLUME 80 NUMBER 3 2005

ARTICLES

Effects of sodium nitroprusside, a nitric oxide donor, on γ-aminobutyric acid concentration in the brain and on picrotoxin-induced convulsions in combination with phenobarbitone in rats.
PAUL, V. and P. EKAMBARAM 363

Diurnal rhythms in quinpirole-induced locomotor behaviors and striatal D2/D3 receptor levels in mice.
AKHISAROGLU, M., M. KURTUNCU, H. MANEV and T. UZ 371

Cross-talk between an activator of nuclear receptors-mediated transcription and the D_1 dopamine receptor signaling pathway.
SCHMIDT, A., R. VOGEL, S.J. RUTLEDGE, E.E. OPAS, G.A. RODAN and E. FRIEDMAN 379

Effects of clomipramine on self-control choice in Lewis and Fischer 344 rats.
ANDERSON, K.G. and W.L. WOOLVERTON 387

Anxiolytic-like effect of a selective and non-peptidergic melanocortin 4 receptor antagonist, MCL0129, in a social interaction test.
SHIMAZAKI, T. and S. CHAKI 395

Antidepressant-like actions of intra-accumbens infusions of allopregnanolone in ovariectomized Wistar rats.
MOLINA-HERNÁNDEZ, M., N.P. TELLEZ-ALCÁNTARA, J. PÉREZ GARCÍA, J.I. OLIVERA LOPEZ and M. TERESA JARAMILLO 401

Differential behavioral and neuroendocrine effects of repeated nicotine in adolescent and adult rats.
CRUZ, F.C., R. DELUCIA and C.S. PLANETA 411

The involvement of central cholinergic system in (+)-matrine-induced antinociception in mice.
YIN, L.-L. and X.-Z. ZHU 419

Anxiolytic-like actions of centrally-administered neuropeptide Y, but not galanin, in C57BL/6J mice.
KARLSSON, R.-M., A. HOLMES, M. HEILIG and J.N. CRAWLEY 427

Meal patterns in female rats during and after intermittent nicotine administration.
BELLINGER, L.L., P.J. WELLMAN, A. CEPEDA-BENITO, P.R. KRAMER, G. GUAN, C.M. TILLBERG, P.R. GILLASPIE and E.G. HILL 437

Chronic morphine exposure during puberty decreases postpartum prolactin secretion in adult female rats.
BYRNES, E.M. 445

Transdermal nicotine administration enhances automatic auditory processing reflected by mismatch negativity.
INAMI, R., E. KIRINO, R. INOUE and H. ARAI 453

Alterations in GABAergic function following forced swimming stress.
BRIONES-ARANDA, A., L. ROCHA and O. PICAZO 463

Morphine preexposure facilitates morphine place preference and attenuates morphine taste aversion.
SIMPSON, G.R. and A.L. RILEY 471

Interaction of cocaine and dopamine transporter inhibitors on behavior and neurochemistry in monkeys.
GINSBURG, B.C., H.L. KIMMEL, F.I. CARROLL, M.M. GOODMAN and L.L. HOWELL 481

The spinal nitric oxide involved in the inhibitory effect of midazolam on morphine-induced analgesia tolerance.
CAO, J.-L., H.-L. DING, J.-H. HE, L.-C. ZHANG, S.-M. DUAN and Y.-M. ZENG 493

Absence of 5-HT_3 and cholinergic mechanisms in improgan antinociception.
NALWALK, J.W., K. SVOKOS, R. LEURS and L.B. HOUGH 505

Effect of calcium channel modulators on temperature regulation in ovariectomized rats.
LEVENTHAL, L., S. COSMI and D. DEECHER. 511

Neurochemical, pharmacokinetic, and behavioral effects of the novel selective serotonin reuptake inhibitor BMS-505130.
TABER, M.T., R.N. WRIGHT, T.F. MOLSKI, W.J. CLARKE, P.J. BRASSIL, D.J. DENHART, R.J. MATTSON and N.J. LODGE 521

CONTENTS VOLUME 80 NUMBER 4 2005

ARTICLES

Low-dose cholinesterase inhibitors do not induce delayed effects on cerebral blood flow and metabolism.
SCREMIN, O.U., T.-M. SHIH, L. HUYNH, M. ROCH, W. SUN, D.R. CHIALVO and D.J. JENDEN. 529

Post-trial treatment with the nicotinic agonist metanicotine: Differential effects in Wistar rats with high versus low rearing activity.
BORTA, A. and R.K.W. SCHWARTING 541

Partial serotonergic denervation decreases progenitor cell proliferation in the adult rat hippocampus, but has no effect on rat behavior in the forced swimming test.
ROSENBROCK, H., A. BLOCHING, C. WEISS and F. BORSINI 549

Dietary cadmium exposure attenuates D-amphetamine-evoked [^{3}H]dopamine release from striatal slices and methamphetamine-induced hyperactivity.
MILLER, D.K., M.M. DOPHEIDE, S.M. SMITH and S.W. CASTEEL. 557

Adolescent and adult female rats differ in sensitivity to nicotine's activity effects.
ELLIOTT, B.M., M.M. FARADAY, J.M. PHILLIPS and N.E. GRUNBERG 567

Strain and sex alter effects of stress and nicotine on feeding, body weight, and HPA axis hormones.
FARADAY, M.M., K.H. BLAKEMAN and N.E. GRUNBERG 577

The effect of zotepine, risperidone, clozapine and olanzapine on MK-801-disrupted sensorimotor gating.
BUBENÍKOVÁ, V., M. VOTAVA, J. HORÁČEK, T. PÁLENÍČEK and C. DOCKERY 591

The role of the phosphatidyinositol-linked D_1 dopamine receptor in the pharmacology of SKF83959.
ZHEN, X., S. GOSWAMI and E. FRIEDMAN 597

Progesterone inhibits behavioral responses and estrogen increases corticosterone levels after acute cocaine administration.
NIYOMCHAI, T., S.J. RUSSO, E.D. FESTA, A. AKHAVAN, S. JENAB and V. QUIÑONES-JENAB. 603

The effects of the $GABA_A$ antagonist bicuculline on cocaine self-administration in rats exposed to lead during gestation/lactation.
VALLES, R., A. ROCHA, A. CARDON, G.R. BRATTON and J.R. NATION 611

Reconditioning of drug-related cues: A potential contributor to relapse after drug reexposure.
LERI, F. and Z. RIZOS 621

Metyrapone and cocaine: A double-blind, placebo-controlled drug interaction study.
WINHUSEN, T., E. SOMOZA, J.M. HARRER, E. MOORE, T. USSERY, F. KROPP, B. SINGAL, A. ELKASHEF and J. MOJSIAK 631

NMDA antagonist modulation of morphine antinociception in female vs. male rats.
CRAFT, R.M. and D.A. LEE. 639

Contents of Volume 80 651

Author Index 655

Keyword Index 657